

## ABSTRACT

5 A positive resist mainly composed of a novolak resin and comprising a  
naphthoquinone diazido-based photosensitizer as an energy beam sensitive resin  
(e.g., a photosensitive resin) is applied in a thickness of 0.1 to 0.2  $\mu$  m to a surface of  
a glass substrate 1 provided with transparent electrodes and dried so as to form a  
photosensitive film. Next, using a mask, the film is exposed to ultraviolet rays  
(365 nm). Then, moisture in the air reacts with the resist in an exposed portion 2',  
thereby generating - COOH groups, with which  $\text{CH}_3(\text{CH}_2)_{18}\text{SiCl}_3$  is allowed to  
10 react so as to cause a dehydrochlorination reaction, thereby forming a  
monomolecular chemisorption film 6 comprising carbon chains 8. This film is  
used as an alignment film. Thus, the present invention provides a method for  
producing a uniform and thin alignment film for use in a liquid crystal display  
panel with a high efficiency without performing a rubbing treatment, and a  
15 method for producing a display panel using the same.